Impact of Radiology Mobile Technology on Resident House-staff

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Problem
No good remote mobile imaging access platform.

Methods
Developed a mobile app that allows medical providers to access diagnostic quality images and measured its usability and effect on workflow efficiency and patient care using a survey.
Mobile Imaging Access

- Diagnostic quality images with excellent image manipulation capability
- Access imaging from home or on the go
- Share images and results with patients in real time

Goal to Enhance Patient Care and Work Flow
Easy and Innovative User Interface

Scroll Images
Pan Image
Zoom
Window
Results (18 total users)

• Outside of the radiology department, the application was the setting in which users most commonly viewed radiologic imaging.

• The application was used predominantly to view plain films and to a lesser extent CT scans.

• Location wise, the application proved most helpful when viewing images on call or at home.

• Over 86% of users believed that mobile access to imaging improved workflow efficiency and 73% of users believed that the application allowed them to more quickly achieve a clinical diagnosis.

• 73% of users also said that the application helped them share images with patients.

• Major factors limiting use of the application was the user interface and the ability to manipulate images.
Conclusions

Implementation of a mobile application to remotely view radiologic images was very well received.

Most users felt that the application had a positive impact on workflow efficiency and patient care.